



06-07-04

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PATENT

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In Re the Application of:

THOMAS et al.

Serial No.: 10/817,616

Filed: April 2, 2004

Atty. File No.: 3791-30

For: "APPARATUS AND PROCESS FOR
PREPARING SORBENTS FOR
MERCURY CONTROL AT THE
POINT OF USE"

Group Art Unit: Not Yet Assigned

Examiner: Not Yet Assigned

**INFORMATION DISCLOSURE
STATEMENT**

Express Mail Label: EV368038170US

Mail Stop: Amendments
Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

Sir:

The references cited on attached Form PTO-1449 are being called to the attention of the Examiner.

- ☒ Copies of the cited foreign patents and/or non-patent references are enclosed herewith.
- ☒ Copies of the cited U.S. patents and/or U.S. patent application publications are not enclosed

in accordance with the waiver dated July 11, 2003, whereby patent applications filed after June 30, 2003 and international applications that have entered the national stage under 35 U.S.C. § 371 after June 30, 2003 need not submit copies of U.S. patents and U.S. patent application publications.

- ☐ Are not enclosed, in accordance with 37 C.F.R. 1.98(d), because the references were submitted to the U.S. Patent and Trademark Office in prior application Serial No. _____ filed _____, which is relied upon for an earlier filing date under 35 U.S.C. § 120.

☐ To the best of applicants' belief, the pertinence of the foreign-language references are believed to be summarized in the attached English abstracts and in the figures, although applicants do not necessarily vouch for the accuracy of the translation.

☐ Examiner's attention is directed to the following co-pending application(s) for which priority is not being claimed, copies have been or are being submitted:

Serial No. _____ filed _____ (Atty. Dckt. No. _____)

☐ Examiner's attention is directed to the following co-pending application(s), to which the current application claims priority, copies of at least the claims for such pending application are provided or have been provided:

Serial No. _____ filed _____ (Atty. Dckt. No. _____)

Submission of the above information is not intended as an admission that any item is citable under the statutes or rules to support a rejection, that any item disclosed represents analogous art, or that those skilled in the art would refer to or recognize the pertinence of any reference without the benefit of hindsight, nor should an inference be drawn as to the pertinence of the references based on the order in which they are presented. Submission of this statement should not be taken as an indication that a search has been conducted, or that no better art exists.

It is respectfully requested that the cited information be expressly considered during the prosecution of this application and the references made of record therein.

FEES

<input checked="" type="checkbox"/>	<p>37 CFR 1.97(b): No fee is believed due in connection with this submission, because the information disclosure statement submitted herewith satisfies one of the following conditions ("X" indicates satisfaction):</p> <div style="margin-left: 40px;"> <input checked="" type="checkbox"/> Within three months of the filing date of a national application other than a continued prosecution application under 37 CFR 1.53(d), or <input type="checkbox"/> Within three months of the date of entry into the national stage of an international application as set forth in 37 CFR 1.491 or <input type="checkbox"/> Before the mailing date of a first Office Action on the merits, or <input type="checkbox"/> Before the mailing of a first Office action after the filing of a Request for Continued Examination (RCE) under 37 CFR 1.114. </div> <p>Although no fee is believed due, if any fee is deemed due in connection with this submission, please charge such fee to Deposit Account 19-1970.</p>
<input type="checkbox"/>	<p>37 CFR 1.97(c): The information disclosure statement transmitted herewith is being filed after all the above conditions (37 CFR 1.97(b)), but before the mailing date of one of the following conditions:</p> <div style="margin-left: 40px;"> (1) a final action under 37 C.F.R. 1.113 or (2) a notice of allowance under 37 C.F.R. 1.311, or (3) an action that otherwise closes prosecution in the application. </div> <p>This Information Disclosure Statement is accompanied by:</p> <div style="margin-left: 40px;"> <input type="checkbox"/> A Certification (below) as specified by 37 C.F.R. 1.97(e). Although no fee is believed due, if any fee is deemed due in connection with this submission, please charge such fee to Deposit Account 19-1970. </div> <p style="text-align: center;">OR</p> <div style="margin-left: 40px;"> <input type="checkbox"/> A check in the amount of \$180.00 for the fee set forth in 37 C.F.R. 1.17(p) for submission of an information disclosure statement. Please credit any overpayment or charge any underpayment to Deposit Account No. 19-1970. </div>
<input type="checkbox"/>	<p>37 CFR 1.97(d): This Information Disclosure Statement is being submitted after the period specified in 37 CFR 1.97(c).</p> <div style="margin-left: 40px;"> <input type="checkbox"/> This information Disclosure Statement includes a Certification (below) as specified by 37 C.F.R. 1.97(e) </div> <p style="text-align: center;">AND</p> <div style="margin-left: 40px;"> <input type="checkbox"/> Applicants hereby requests consideration of the reference(s) disclosed herein. Enclosed is the fee in the amount of \$180.00 under 37 C.F.R. 1.17(p). Please credit any overpayment or charge any underpayment to Deposit Account No. 19-1970. Please credit any overpayment or charge any underpayment to Deposit Account No. 19-1970. Election to pay the fee should not be taken as an indication that applicant(s) cannot execute a certification. </div>

Certification (37 C.F.R. 1.97(e))
(Applicable only if checked)

☐ The undersigned certifies that:

☐ Each item of information contained in this information disclosure statement was first cited in any communication from a foreign patent office in a counterpart foreign application not more than three months prior to the filing of this statement. 37 C.F.R. 1.97(e)(1).

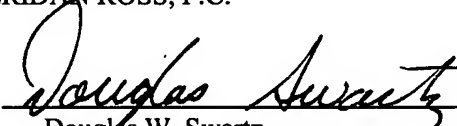
☐ A copy of the communication from the foreign patent office is enclosed.

OR

☐ No item of information contained in this information disclosure statement was cited in a communication from a foreign patent office in a counterpart foreign application, and, to the knowledge of the undersigned after making reasonable inquiry, no item of information contained in this Information Disclosure Statement was known to any individual designated in 37 C.F.R. 1.56(c) more than more than three months prior to the filing of this statement. 37 C.F.R. 1.97(e)(2).

Respectfully submitted,

SHERIDAN ROSS, P.C.

By: 

Douglas W. Swartz
Registration No. 37,739
1560 Broadway, Suite 1200
Denver, CO 80202-5141
TELEPHONE: 303-863-2975
FAX: 303-863-0223

Date: June 4, 2004
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FORM PTO-1449

U.S. DEPARTMENT OF COMMERCE
PATENT AND TRADEMARK OFFICEATTY. DOCKET NO.
3791-30SERIAL NO.
10/817,616INFORMATION DISCLOSURE STATEMENT
(Use several sheets if necessary)APPLICANT
THOMAS et al.FILING DATE
April 2, 2004GROUP ART
Not Yet Assigned

U.S. PATENT DOCUMENTS

*EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUB CLASS	FILING DATE IF APPROP.
	1	3,755,161	08/28/73	Yokota et al.	210	36	
	2	4,094,777	06/13/78	Sugier et al.	210	32	
	3	4,101,631	07/18/78	Ambrosini et al.	423	210	
	4	4,102,982	07/25/78	Weir Jr.	423	243.1	
	5	4,369,167	01/18/83	Weir Jr.	423	210	
	6	4,459,370	07/10/84	van der Wal et al.	502	338	
	7	4,474,896	10/02/84	Chao	502	216	
	8	4,500,327	02/19/85	Nishino et al.	55	72	
	9	4,709,118	11/24/87	Yan	585	820	
	10	4,721,582	01/26/88	Nelson	252	189	
	11	4,764,219	08/19/88	Yan	134	2	
	12	4,771,030	09/13/88	Audeh	502	414	
	13	4,786,483	11/22/88	Audeh	423	210	
	14	4,786,484	11/22/88	Nelson	423	239	
	15	4,814,152	03/21/89	Yan	423	210	
	16	4,834,953	05/30/89	Audeh	423	210	
	17	4,843,102	06/27/89	Horton	521	28	
	18	4,844,815	07/04/89	Ader et al.	210	751	
	19	4,877,515	10/31/89	Audeh	208	251 R	
	20	4,892,567	01/09/90	Yan	55	33	
	21	4,902,662	01/20/90	Toulhoat et al.	502	216	

EXAMINER

DATE CONSIDERED

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

FORM PTO-1449 U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE INFORMATION DISCLOSURE STATEMENT (Use several sheets if necessary)	ATTY. DOCKET NO. 3791-30	SERIAL NO. 10/817,616
	APPLICANT THOMAS et al.	
	FILING DATE April 2, 2004	GROUP ART Not Yet Assigned

	22	4,933,158	06/12/90	Aritsuka et al.	423	210	
	23	5,064,626	11/12/91	Johnson et al.	423	245.1	
	24	5,085,844	02/04/92	Nowack et al.	423	245.1	
	25	5,120,515	06/09/92	Audeh et al.	423	210	
	26	5,141,724	08/25/92	Audeh et al.	423	210	
	27	5,225,175	07/06/93	Lyon	423	235	
	28	5,245,106	09/14/93	Cameron et al.	585	823	
	29	5,248,488	09/28/93	Yan	423	210	
	30	5,322,628	06/21/94	Yan	210	673	
	31	5,409,522	04/25/95	Durham et al.	75	670	
	32	5,460,643	10/24/95	Hasenpusch et al.	95	134	
	33	5,569,436	10/29/96	Lerner	422	170	
	34	5,599,508	02/04/97	Martinelli et al.	422	169	
	35	5,607,496	03/04/97	Brooks	75	60	
	36	5,670,122	09/23/97	Zamansky et al.	423	210	
	37	5,672,323	09/30/97	Bhat et al.	422	172	
	38	5,695,726	12/09/97	Lerner	423	210	
	39	5,827,352	10/27/98	Altman et al.	95	58	
	40	5,900,042	05/04/99	Mendelsohn et al.	75	742	
	41	6,103,205	08/15/00	Wojtowica et al.	423	210	
	42	6,136,281	10/24/00	Meischen et al.	423	210	
	43	6,270,679 B1	08/07/01	Kreisler	210	710	
	44	6,322,613 B1	11/27/01	Wojtowicz et al.	95	107	
	45	6,372,187 B1	04/16/02	Madden et al.	422	171	
	46	6,375,909 B1	04/23/02	Dangtran et al.	423	235	

EXAMINER	DATE CONSIDERED
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	APPLICANT THOMAS et al.	
	FILING DATE April 2, 2004	GROUP ART Not Yet Assigned

	47	6,524,371 B2	02/25/03	El-Shoubary et al.	95	134	
	48	6,533,842 B1	03/18/03	Maes et al.	95	134	
	49	6,558,642 B2	05/06/03	El-Shoubary et al.	423	245.3	

FOREIGN PATENT DOCUMENTS

		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB CLASS	TRANSLATION	
							YES	NO
	50	EP 1 225 967 B1	7/31/2002	Europe	B01D	53/60		
	51	WO 0126784 A1	04/19/01	WIPO	B01D	53/60		

OTHER ART (Including Author, Title, Date, Pertinent Pages, etc.)

	52	R.K. Srivastava et al., "Flue Gas Desulfurization: The State of the Art," <u>J. Air & Waste Manag. Assoc.</u> , Vol. 51 (Dec. 2001), pp. 1676-88.
	53	Wylecial et al.; "The Activation of Sorbent in a Jet Mill in the Combustion-Gas Sulfur Removal Process"; <u>Technical University of Czestochowa</u> ; (date unknown); pp. 1-6

EXAMINER	DATE CONSIDERED
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